

# This Week In PHOTONICS

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## Top Stories

### Scalable Quantum Light Source Could Enable Quantum Cryptography, Computing

Researchers have developed a scalable, precise method for creating large numbers of quantum light sources on a chip. These light sources could be used for quantum computers and quantum cryptographic systems. The method combines spatial control and scalability with the ability to efficiently emit photons on demand.



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### New Laser Network Gives Scientists Access to High-Intensity, Ultrafast Lasers

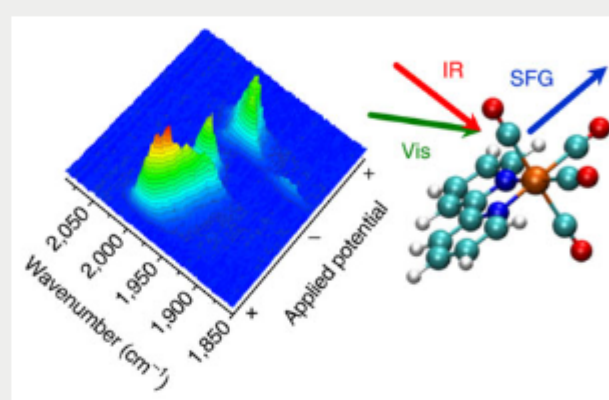
Nine institutions across the country have joined a new U.S.-wide national research network called LaserNetUS. The collaboration includes Lawrence Berkeley National Laboratory, University of Texas at Austin, Ohio State, Colorado State, Michigan, Nebraska-Lincoln, SLAC National Laboratory, University of Rochester, and Lawrence Livermore National Laboratory.



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### Spectroscopy Technique Could Lead to Ways to Convert Carbon Dioxide to Clean Fuel

Optical spectroscopy is being applied by a team at the University of Liverpool to better understand electrocatalysis, a phenomenon that could enable more efficient conversion of waste products, like carbon dioxide, to usable energy.



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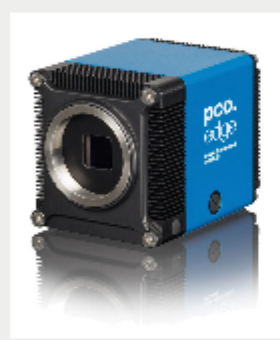
## Featured Products



### Industrial Laser Safety at a Glance

**Photonics Media**  
A straightforward guide, offering clear, real world explanations of laser safety elements and the necessary background materials for the industrial laser environment. It raises the awareness of the dangers of laser exposure.

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### pco.edge 4.2 bi: Back Illuminated sCMOS

**PCO-TECH Inc.**  
Innovations aren't always about having that one big new idea. Unique technology also comes from evolution, combining existing and new technology. When PCO's tried and trusted pco.edge series pools forces with modern back illuminated (bi) 16 bit sCMOS sensor technology, we call the result: pco.edge 4.2 bi.

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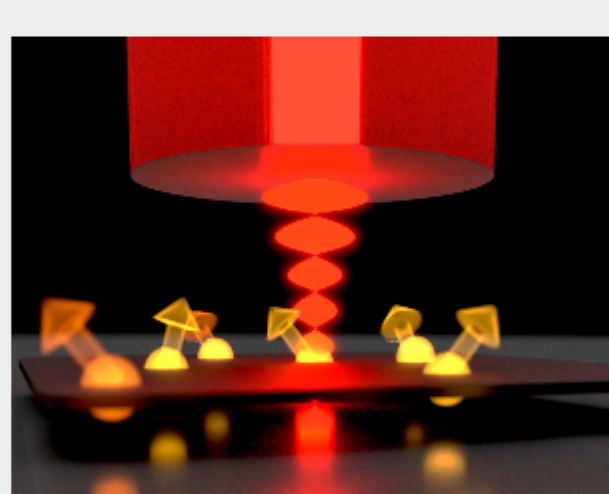
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## More News

### SQUARE Team Studies Light-Activated Materials for Building Multifunctional Qubits

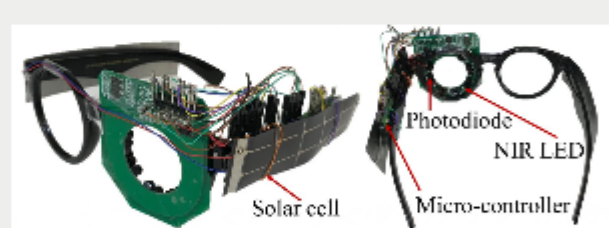
In an initiative called the Scalable Rare Earth Ion Quantum Computing Nodes (SQUARE) project, researchers are investigating materials — specifically, rare earth ions — to be used for multifunctional quantum bits (qubits). Rare earth ions are electrically charged atoms of rare-earth metals.



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### New Eye Tracker Could Improve AR Displays While Using Less Energy

A battery-free eye tracker uses NIR lights and photodiodes, instead of cameras, to make the system energy efficient and less bulky. The wearable eye tracker tracks both the 2D position and diameter of the pupil.



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## More Headlines

**Northrop Grumman Army Defense System Ready for Deployment** [Read Article](#)

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**Intercon 1 to Manufacture Discontinued Northwire Machine Vision Cable** [Read Article](#)

**AIM Photonics Attracts Interest from Industry, Government, Academia** [Read Article](#)

**OCTA Could Help Detect Alzheimer's in Its Early Stages** [Read Article](#)

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## Industry Events

### SEMICON Europa 2018

November 13-16, 2018 - Munich Germany  
SEMICON Europa 2018 will offer attendees numerous opportunities to exchange ideas and promote their technological progress through the most advanced and innovative electronics manufacturing platforms in Europe. This year SEMICON Europa is co-located with electronica 2018 in Munich. Together, the two events will connect industry leaders and international experts from every segment and sector of the European microelectronics industries including semiconductors, LEDs, MEMS, printed/organic/flexible, and adjacent markets.



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